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## **AMENDMENTS**

## In The Claims:

Please amend the claims as follows:

Claim 1. (currently amended) A reading method to a flash memory from a data-access requesting component, wherein the flash memory includes a plurality of storage sectors, and a read operation to one sector of the storage sectors needs a plurality of stages handled by an access controller, the reading method comprising:

performing a first read operation to read a current sector of the storage sectors;-and starting to perform a second read operation to a next sector of the storage sectors when the first read operation is not completed yet; and

starting to perform a third read operation to read a further next sector of the storage sectors when the first read operation and the second read operation are not completed yet,

wherein the second read operation starts before the first read operation ends thereby decreasing the time required to perform read operations and increasing overall system performance.

wherein the stages includes a first stage for finding a sector of the storage sectors to be read, a second stage for transmitting an information to be read from the flash memory into the access controller, and a third stage for transmitting an information to be read in the access controller into the data-access requesting component,

wherein the second stage for the first read operation is overlapping with the first stage for the second read operation.

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## Claims 2-3 (canceled)

Claim 4. (original) The reading method of claim 1, further comprising recurrently performing the foregoing steps if another sector is still to be read.

## Claim 5 (canceled)

Claim 6. (currently amended) The reading method of claim [[3]]1, wherein the third stage for the first read operation is overlapping with the second stage for the second read operation.

Claim 7. (currently amended) The reading method of claim [[3]]1, further comprising starting to perform a first stage of a third read operation to find out a further next sector of the storage sectors to be read when the first read operation and the second read operation are not completed yet.

Claim 8. (currently amended) A reading method to a flash memory from a data-access requesting component, wherein the flash memory includes a plurality of storage sectors, and a read operation to one sector of the storage sectors needs a plurality of stages handled by an access controller, the reading method comprising:

performing a first read operation to read a current sector of the storage sectors;-and
starting to perform a second read operation to a next sector of the storage sectors when

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the first read operation is not completed yet;

starting to perform a third read operation to read a further next sector of the storage

sectors when the first read operation and the second read operation are not completed yet; and

starting to perform a first stage of a third read operation to find out a further next sector

of the storage sectors to be read when the first read operation and the second read operation are

not completed yet,

wherein the second read operation starts before the first read operation ends thereby

decreasing the time required to perform read operations and increasing overall system

performance,

wherein the stages includes a first stage for finding a sector of the storage sectors to be

read, a second stage for transmitting an information to be read from the flash memory into the

access controller, and a third stage for transmitting an information to be read in the access

controller into the data-access requesting component,

\_\_\_\_\_The reading method of claim 7, wherein the third stage of the first read operation, the

second stage for the second read operation, and the first stage for the third read operation are

overlapping.

Claim 9. (previously presented) A writing method to a flash memory from a data-access

requesting component, wherein the flash memory includes a plurality of storage sectors, and a

writing operation to one sector of the storage sectors needs a plurality of stages handled by an

access controller, the writing method comprising:

performing a first writing operation to write a current sector of the storage sectors; and

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starting to perform a second writing operation to a next sector of the storage sectors when the first writing operation is not completed yet;

wherein the second writing operation starts before the first writing operation ends thereby decreasing the time required to perform writing operations and increasing the overall system performance,

wherein the stages includes a first stage for transmitting an information to be written into the access controller, a second stage for finding a sector of the storage sectors in the flash memory to be written, and a third stage for transmitting an information in the access controller into the flash memory.

Claim 10. (original) The writing method of claim 9, further comprising starting to perform a third writing operation to write a further next sector of the storage

Claim 11. (canceled)

sectors when the second writing operation is not completed yet.

Claim 12. (original) The writing method of claim 9, further comprising recurrently performing the foregoing steps if another sector is still to be written.

Claim 13. (previously presented) The writing method of claim 12, wherein the third stage for the first writing operation is overlapping with the first stage of the second writing operation.

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Claim 14. (previously presented) The writing method of claim 12, wherein the first stage and the second stage for the same writing operation are overlapping.

Claim 15. (previously presented) The writing method of claim 12, wherein the third stage of the first writing operation, the first stage for the second writing operation, and the second stage for the second writing operation are overlapping.

Claims 16-23 (canceled)